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III. CLAIMS

1-9. Cancelled

- 10. (Withdrawn) A method according to claim 9, wherein the fibrin matrix is used in an angiogenesis test.
- 11-13. Cancelled
- 14. (Withdrawn) A pharmaceutical composition, comprising fibrinogen and a pharmaceutically acceptable carrier, wherein the fibrinogen consists of a selected fibrinogen variant or a fibrinogen enriched or depleted in a fibrinogen variant.
- 15. (Withdrawn) A pharmaceutical composition according to claim 14, wherein the fibrinogen consists of HMW fibrinogen or of a mixture of fibrinogen variants enriched in HMW fibrinogen or depleted in LMW en/of LMW' fibrinogen.
- 16. (Withdrawn) A pharmaceutical composition according to claim 15, which is suitable for promoting wound healing, inhibiting or preventing cicatrization or treating burns.
- 17. (Withdrawn) A pharmaceutical composition according to claim 14, wherein the fibrinogen consists of LMW fibrinogen or of a mixture of fibrinogen variants enriched in LMW fibrinogen or depleted in HMW fibrinogen.
- 18. (Withdrawn) A pharmaceutical composition according to claim 14, wherein the fibrinogen consists of LMW' fibrinogen or of a mixture of fibrinogen variants enriched in LMW' fibrinogen or depleted in HMW fibrinogen.

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- 19. (Withdrawn) A pharmaceutical composition according to claim
- 17, which is suitable for inhibiting or preventing tumor growth or adhesions.
- 20. (Withdrawn) A test kit, comprising components for the formation of a fibrin matrix, including fibrinogen, wherein the fibrinogen consists of a selected fibrinogen variant or a fibrinogen enriched or depleted in a selected fibrinogen variant.
- 21. (Withdrawn) A test kit according to claim 20, wherein the fibrinogen consists of HMW fibrinogen or of a mixture of fibrinogen variants enriched in HMW fibrinogen or depleted in LMW and/or LMW' fibrinogen.
- 22. (Withdrawn) A test kit according to claim 20, also comprising an enzyme suitable for forming fibrin from fibrinogen, such as thrombin, and optionally factor XIIIa and/or Cacl₂.
- 23. (Withdrawn) A test kit according to claim 20, also comprising components for effecting angiogenesis.
- 24. (Withdrawn) A test kit according to claim 23, comprising as components for effecting angiogenesis one or more angiogenic growth factors, such as fibroblast growth factor-2 (FGF-2) or vascular endothelial growth factor (VEGF), and/or tumor necrosis factor alpha (TNF- α), and/or cells, such as human endothelial cells.

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- 41. (New) A method for modifying the angiogenesis properties of a fibrin matrix comprising the steps of
- a. selecting a composition selected from the group essentially consisting of:
- i) a composition comprising fibrinogen, wherein the fibrinogen has an HMW content of at least 80% (w/w) of the total fibrinogen amount;
- ii) a composition comprising fibrinogen, wherein the fibrinogen has an HMW content of less than 60% (w/w) of the total fibrinogen amount;
- iii) a composition comprising fibrinogen, wherein the fibrinogen has an LMW content of at least 40% (w/w) of the total fibrinogen amount; and
- iv) a composition comprising fibrinogen, wherein the fibrinogen has an LMW content of less than 20% (w/w) of the total fibrinogen amount; and
 - b. forming a fibrin matrix from said composition.
- 42. (New) A method according to claim 41, wherein a fibrin matrix is formed which leads to accelerated angiogenesis.
- 43. (New) A method according to claim 41, wherein a fibrin matrix is formed which leads to decelerated angiogenesis.
- 44. (New) A method for modifying angiogenesis in a patient, comprising administering to such patient a fibrin matrix modified by a process comprising the steps of:
- a. selecting a composition selected from the group essentially consisting of:
- i) a pharmaceutical composition comprising fibrinogen and a pharmaceutically acceptable carrier, wherein the fibrinogen has an HMW content of at least 80% (w/w) of the total

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fibrinogen amount;

fibrin.

- ii) a pharmaceutical composition comprising fibrinogen and a pharmaceutically acceptable carrier, wherein the fibrinogen has an HMW content of less than 60% (w/w) of the total fibrinogen amount;
- iii) a pharmaceutical composition comprising fibrinogen and a pharmaceutically acceptable carrier, wherein the fibrinogen has axe LMW content of at least 40% (w/w) of the total fibrinogen amount; and
 - iv) a pharmaceutical composition comprising fibrinogen and a pharmaceutically acceptable carrier, wherein the fibrinogen has a LMW content of less than 20% (w/w) of the total fibrinogen amount; and b. forming a fibrin matrix from said composition.
- 45. (New) A method according to claim 44, wherein the fibrin matrix is formed in vitro, where the fibrin matrix is formed by enzymatic conversion and optionally factor XIIIa and CaCl₂, into
- 46. (New) A method according to claim 44, wherein the fibrin matrix is formed in vivo, by applying the fibrinogen composition as defined in step (b), optionally in combination with an enzyme and optionally factor XIIIa and CaCl₂, in a place where the formation of the fibrin matrix takes place.